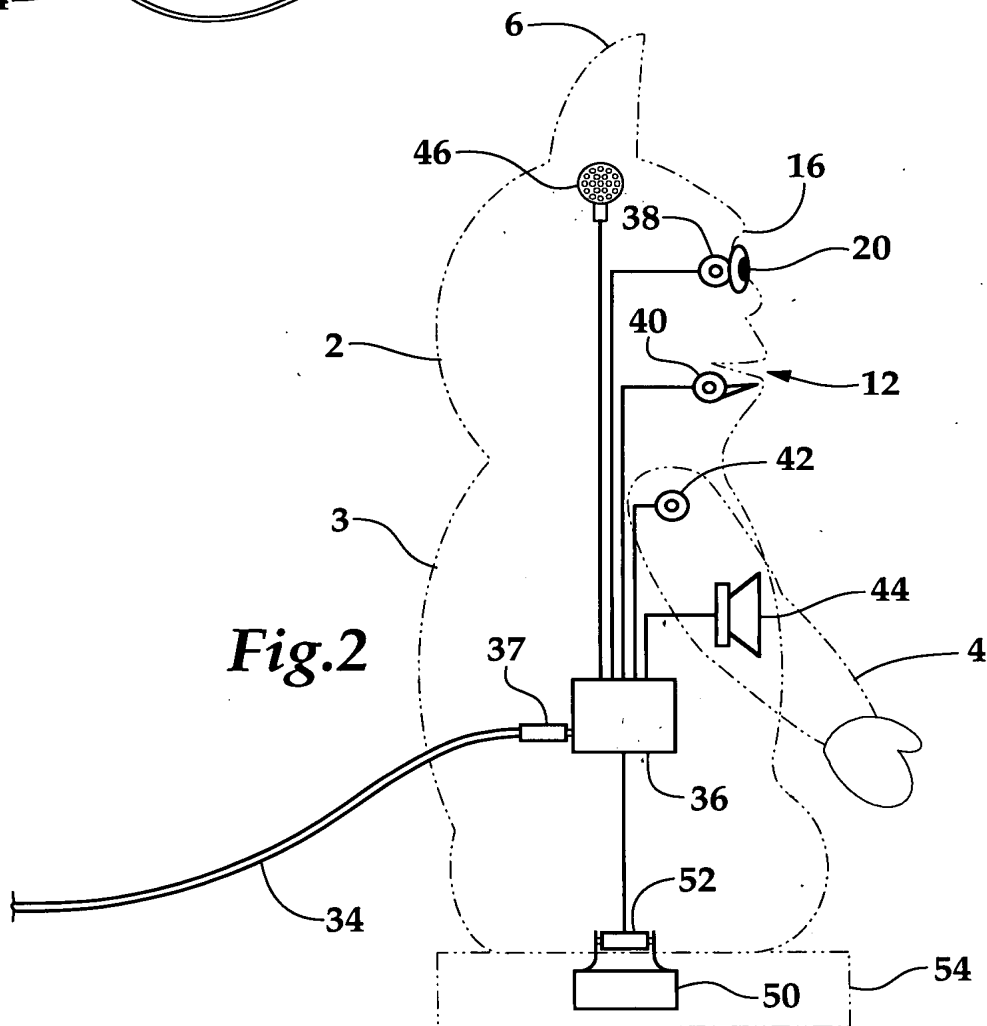
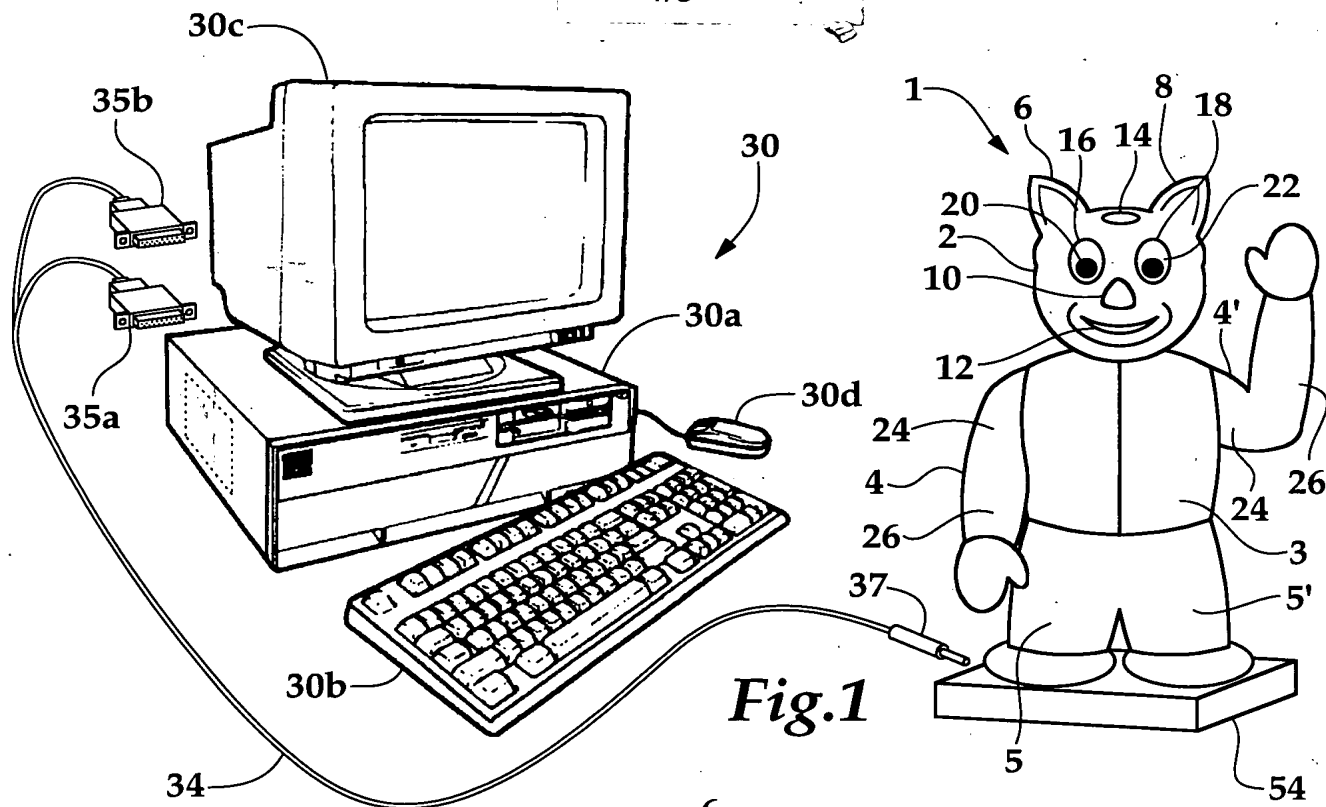


6572431

1/5

59227 U.S. PTO  
08/833342  
04/04/97



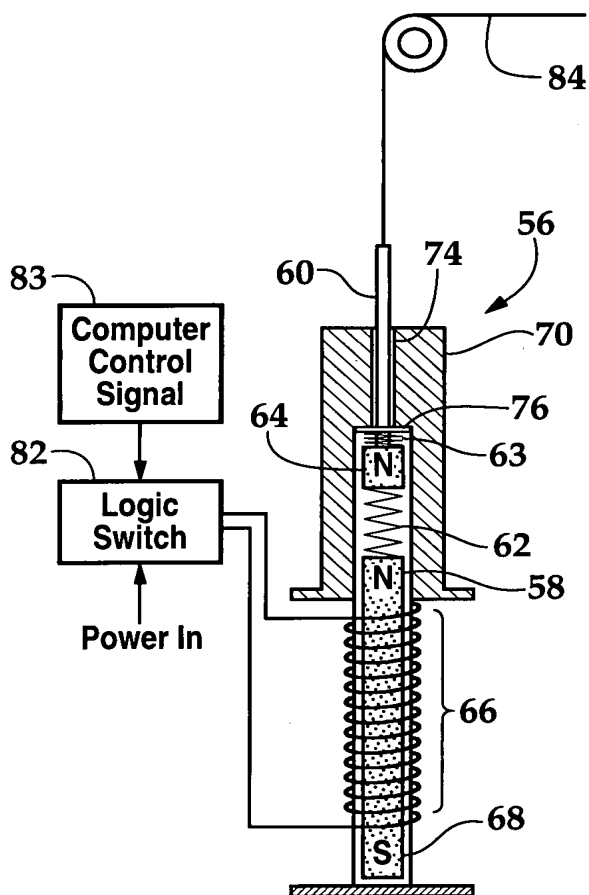


Fig. 3A

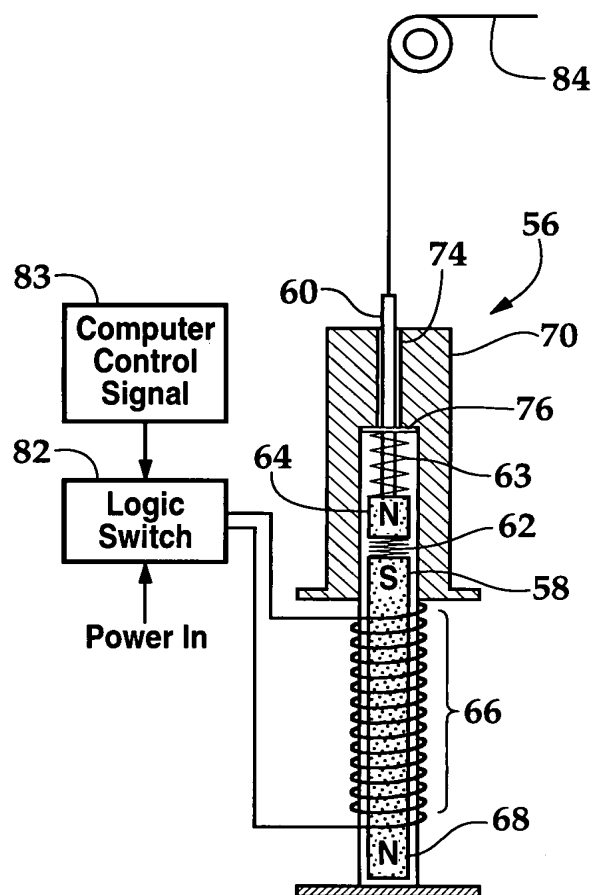


Fig. 3B

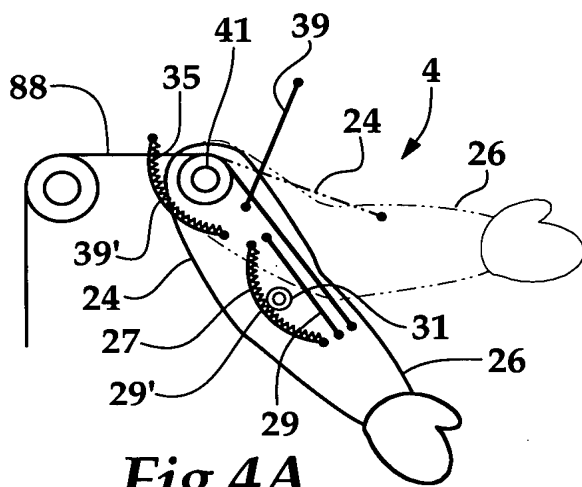


Fig. 4A

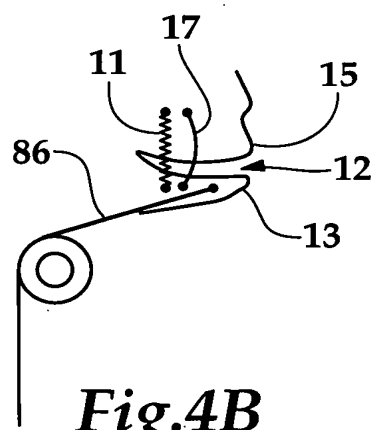


Fig. 4B

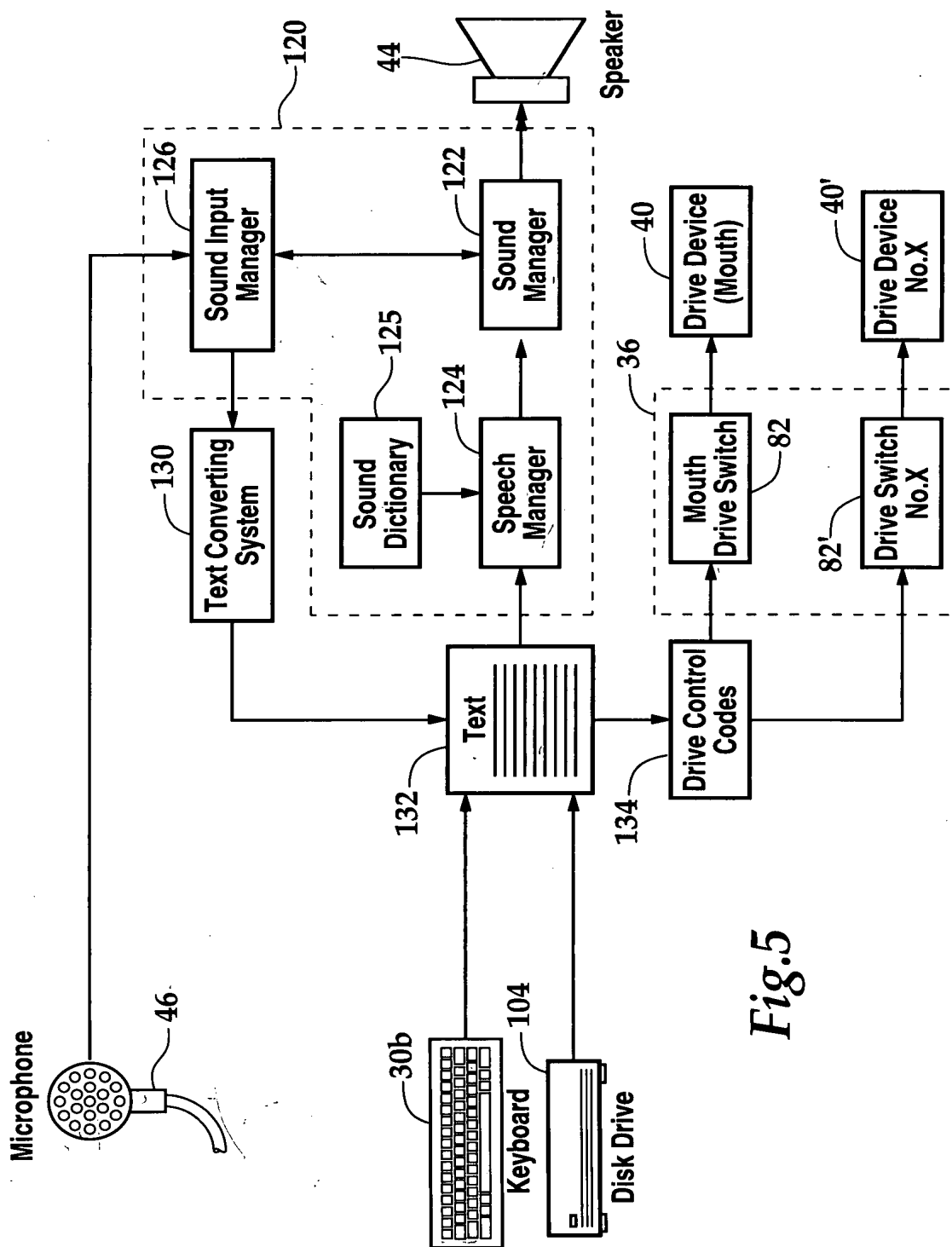
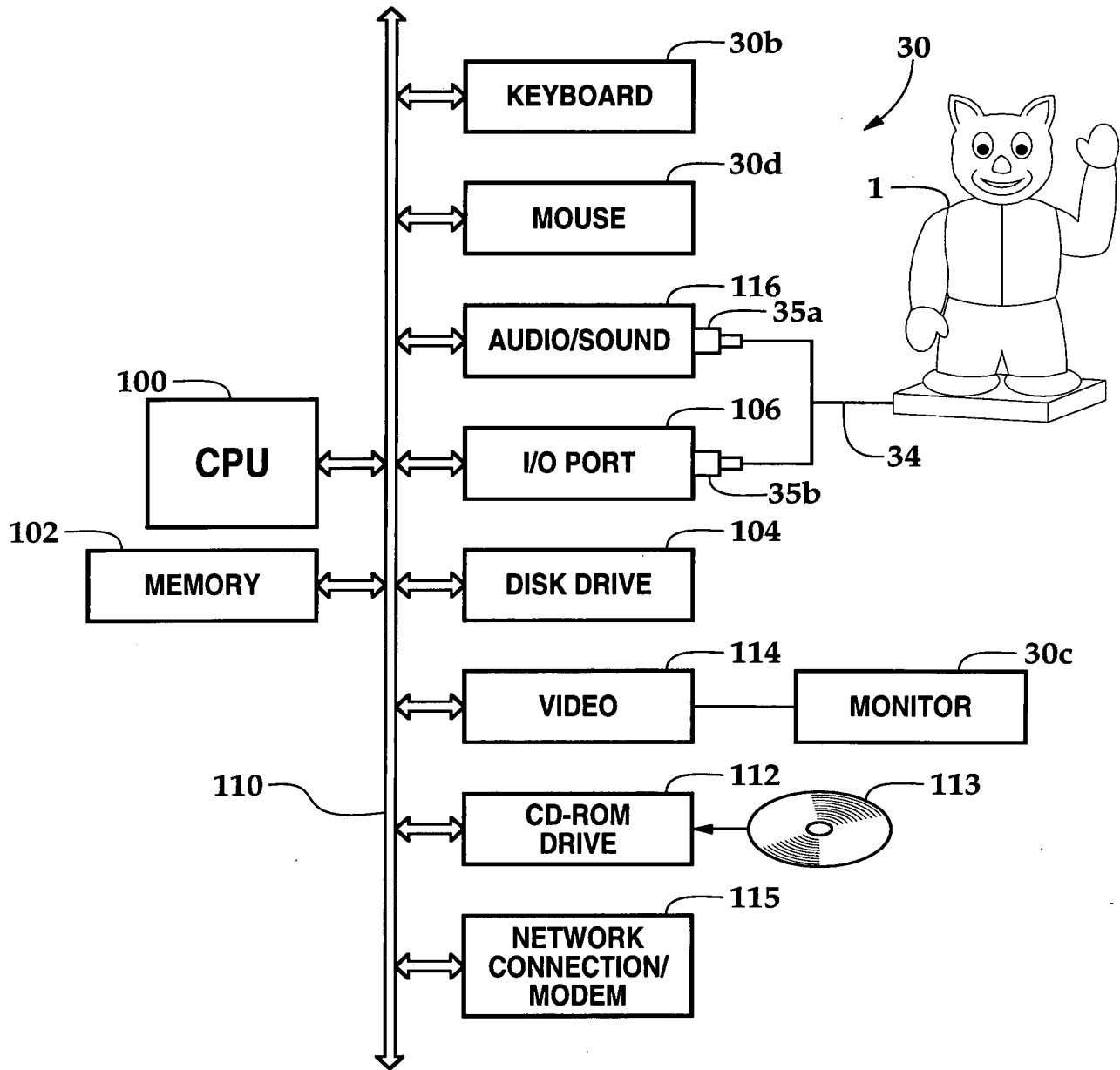


Fig.5

*Fig.6*

Program Start

Create or read ASCII text file

From the text file determine the value  $N$ , the total number of letters, symbols, and null spaces; and the value  $n$ , the total number of words in the text

Create  $N \times 1$  dimension drive control-code array  $X(N)$ ;  
Create  $N \times 1$  dimension time-code array  $C(N)$ ;  
Create  $n \times 1$  dimension array  $t(n)$  for the time period of each word;  
Create  $n \times 1$  dimension array  $m(n)$  for number of letters in each word;

Read in digital codes from the sound dictionary according to the input text file, and save them into an array or a class  $S(n)$

Determine the value  $t(i)$  and  $m(i)$  of the  $i$ th word from  $S$ ; repeat such process for  $i=1$ , to  $n$ ; and determine the total time  $T$ .

Determine drive control code array  $X(N)$  according to vowel letter arrangement in the text file.

Determine the value of each element of  $C(N)$  according to the word that each letter in the text belongs to, by assigning the value  $t(i)/n(i)$  to all those elements of  $C(N)$  that are associated with the letters of the  $i$ th word.

Assign those elements of  $C(N)$  that corresponds to null spaces or symbols to the value  $T/N$

Execute drive control programs with  $C(N)$  and  $X(N)$

Execute sound programs with  $S$  obtained from digital sound dictionary

Fig.7